Saturday, August Nineteenth, 1916.

Will Flood Sahara Desert to Make New Sea For the World's Commerce

Rene Bache

Ancient Timbuctoo, the Mysterious, and Its Many "Millionaires" To Be Made a Scaport of Importance and All of Central Africa Put in Touch With World.

W ASHINGTON, D. C., Aug. 19—
If the Allies win the war,
France and Engiand will together own nearly the whole of Africa.
Germany being eliminated from the
Dark Continent. They are already
making plans to cooperate in the rapid
development of that enormous territory,
and one of the projects contemplated
in the flooding of a great part of the
Saraha Desert.

This, from an engineering viewpoint,
will not be a very difficult affair. In
the western Sahara there is a vast depreasion, or "aink," 200 feet below the
level of the conan, and covering an area
of about 70,000 square miles. All that
is necessary is to cut a canal six miles
tong, in order to let the sea into it.

The depression is called by the Arabs
Eg. Jut, or the Great Hollow. It is a
level plain extending from the vicinity
of Cape Juby on the northwest coast,
irrectly opposite the Canary islands)
outheast to within 100 miles of Tim
the accumulation of sand which long
ago separated El Juf from the Atlantitic
A few miles inland there is a range
of high mountains, running north and
south and paralled with the coast,
that there is a wide gap in the range
though which the channel passes.

Thus, as viewed from the ocean outside from the Atlantite.

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of high mountains, running north and
south and paralled with the coast
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of high mountains.

The hearing and there is a value gap in the range
though which the channel passes
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in the flooding of the desert would be seaports
of high mountains.

The manufacture is a value gap in the range
though which the channel passes
of the channel risk be
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Starth. Descrit.

This, from an engineering viewpoint, will not be a very difficult affair. In the western Sharar there is a vant depression, or "sint," 200 feet below the level of the coran, and covering an area. It is not the start of the roll that used to be. In some places the banks of the channel rise to a land ster important forms to letter the sea into it.

The depression is called by the Arabs El Juf, or the Great Hollow. It is a level plain extending from the vicinity of the company of t

markets, the stuff being quarried out in big slabs.

All over the "sink" are vast deposits of salt, left behind by the vanished sea. Mollustan shells and other marines remains hear witness that its surface at no remote period was covered by the waves of ocean. One great salt-bearing formation in the western part is thirty miles long by twelve in width, and 20,000 ramel-loads are extracted from it annually. So frightful desert is El Juf that no caratan ever ventures to cross it, the routes pursued skirting around its borders.

Old Channel Now Blocked.

The old sea-channel north of Cape Juby, known today as the Great Mouth, is an opening two and a half miles wide between two lofty heights, with cliffs rising perpendicularly 200 feet above the sea. It is blocked by the sandbar aforementioned. In stormy weather waves break furiously on the bar. A strong current setting continually toward the shore has caused

In the Pootprints of the Indian

Various Styles of Moccasins. From Left to Right, the Winnebago, the Apache and the Blackfoot. From the American Natural History Museum.

The Sahara is not all desert, and by no means the whole of it is plain. As already stated, there are high ranges of mountains in the eastern part, and in the east and middle are many green and fortile cases, rendered productive and habitable by springs utilized for purposes of trigation. Considered as a recorraptical whole, the Sahara extends from the Atlantic ocean on the west to the Nile Valley on the east, and from the Souths on the north But the most sterile and impossible part of it is the vast hasin called [1] Juf, or the Great Hollow—the area which it is now proposed to reconvert into an arm of the Atlantic by the simple expedient of letting into it the waters of the ocean.

Over 4,000,000 poles are used each war for

Over 4,000,000 poles are used each year for cenewals by the tolegraph and telephone sompanies in the United States and Canada. Allowing five to a family, the United States Steel Corporation supports 1,073,000 persons, twice the poulation of Boston.

By GARRETT P. SERVISS.

THAT'S not Delaware made, is aid Deceasinger, examining the worm and rejected foot covering with a cautious eye. I'm too young on a warpath to be positive, but I should say that moreasin has a northern look and comes from beyond the great lakes.

In this passage from one of Cooper's immitable indian romances we get a light on one of the American red man—bits peculiar and telitale footwear. The moceanin is an at the fact that skin proverings for the foot have been worm by the natives of Sheria and European Lapland.

Even in this country, as Dr. Clark Wissler, of the American muscuin, has shown, the moceanin inhabiting the States territory and Canada. Moceanin was the area of the m paring the ground for an attack of rheumatism.

It was noticed that several patients with chronic rheumatism in one or more joints, who happened to have gum holls or other abscesses about the noots of their teeth or pus pockets in their tonsils, or offensive catarrhal discharges from the nose, found their rheumatism improyed when these abscesses were opened up, drained, and given thorough antiseptic treatment.

The germs in these abscesses appeared to be merely the ordinary pus germs, stepococci and staphylococci. We did not in the least know why they should show a special appetite for the joints, but there was the helpful fact, and we jumped at it eagerly. The results soon showed that we were on the right track at last.

Hidden Hugs the Cause.

showed that we were on the right track at tast.

Hidden Bugs the Cause.

And for the last five or six years almost every case of rheumatism which has come into the hospital or the doctor's office has been gone over, figuratively speaking, with a bacteriologic fine toothed comb to see whether some pocket of pus or concealed abscess, or tiny robber's roost of "bugs," hiding away in some nook or corner of the body's premises, could be discovered.

In schable two-thirds of all the

Who Daid Kheumatism Science Has Shown That a Little Hidden Sore Often Causes a Big Rheumatic Ache, and the Cause May Be Far Removed from the Pain. Dentist, Hair Specialist, Masseur, Manicurist, Chiropodist, All Have an Important Part in Warding Off the Disease.



By WOODS HUTCHISON, A. M., M. D. (The World's Most Popular Writer on Medical Subjects.)

By Woods Hutchison, A. M., M. D.

The World's Most Popular Writer on Medical Subjects.)

We find decline to take anything for granted and submit to it as a matter of course nowadays. Twenty years are—or even teneverybody expected to get more or less stiff and rheumaticky and achy in their stands.

By far the largest number of these poison bombs, these sunken mines of bacteria, are found in the most and the most in the stands highest on the list of crime, abscesses in the gums about the roots of the feeth, pockets of pus in the most and the cavities in the bones of the head opening into the nose on either side. Twenty years aro-or even teneverybody expected to get more or less atiff and rheumaticky and achy in their bones after they passed their fortieth or fiftleth year.

Probably the roots of the teeth lend in this infamous cace, because there are so many of them, and because the mouth and gums are so constantly swarming with millions upon millions of the thrifty different varieties of greens which normally make their home in them. New we know that almost every painful or acutely uncomfortable change in middle or later life in the course of growing old is due not to nature, but to disease. The only ques-

germe which normally make their nome in them.

But all three of these regions, mouth, nose and throat, furnish such a fertile soil for pus germe, and it is so easy for them to burrow in and form dens underneath the suffnce that it would probably not be too much to say that these three regions develop five times as many small abscesses or pockets of pus as all the rest of the body put to-nether. Of course the term rheumatism is a very vague and wholesome sort of name, and covers a multitude of sins against our bodily comfort.

Any sche or pain or soreness in a toint or timb or a muscle which is without clear excuse for existence is dubbed theumatism. And perhaps we are right half the time, which is a fairly high average in any but the most expert

diagnosis.

We knew 20 or even 40 years ago that the term was used too loosely, still we continued to apply it to all sorts of painful conditions of which we did not

or the clbow joint, which occurs after an attack of venereal disease and is called gonorrheal rheumatism.

Second Hand Germs.

Here the germs were found to be either not present at all in the infected 'oint or only in small numbers, but to nave reached it by pouring their toxins or poisons into the blood in such large quantities that finally the joint large quantities that finally the joint biased out into an inflammation under the continued saturation.

Just as soon as the local trouble was cleared up the inflammation in the joint failed away as if by magic. An even awifur effect was produced by injecting into the patient's blood a vaccine produced from the killed germs of the disease.

Evidently here the germs were causing the trouble, not at first hand, but at second hand; not in person, but by parcel post, through the common carrier of the body, the blood.

About the same time, or a little later, it was disvorted on going vory carefully into the history of a large number of cases of rheumatism, that although they showed no signs of any form of a cute infection either in the form of a cold in the head or a sow throat or an infected wound or scratch in the skin at the time that the jointy head and apparently recovered from an attack of some mild acute infection within from one to three weeks of the outbreak of the rheumatism.

The curious part of it was that it didn't seem to make much difference where or what this infection was. It might be ordinary tonelities or other form of sore throat, a simple cold in the head at attack of uptheria, pneumonia, scarlet fever, typhoid fever, or a whirl of dysentery, diarrhea or summer sickness. Any one of them was apparently capable of leting in or preparing the ground for an attack of rheumatism.

It was noticed that several patients with chronic rheumatism in one or

In probably two-thirds of all the can be found and when it is termed, can be found and when it is found and emptied, providing, of course, it is the only or chief one concerned, there is a most grafifying improvement in the condition of the joint or joints.

Being on the Level

By BEATRICE FAIRFAX,

D OES it pay to be good?" walls Mabel. "I'm honest with penple and I always do what seems the right thing. I'm dignified and loval. And all I get for my pains out of her life. and loyal. And all I get for my pains is the proud privilege of poking around at home when girls who haven't half as high standards as I have are being taken out and given a good time and

are advanced right over my head." To a practical question like "Does it pay to be good?" there is only one an-swer. "No-if you are looking for

A hard, cold, unprincipled man or woman may break and defy the laws of society and perhaps "get away with it"—temporarily. But one has to pay for one's percep-flome. Any human being who has within him or herself a feeling that certain things are fine and certain ignoble must either live up to his own vision of right or suffer tortures.

documentation to burrow in and form dense underneath the suifrace that it would probably not be too much to say that these three regions develop five times as many amual absocates or pockets of pus as all the rest of the boay put together.

Not only is the most thorough and careful examination now given to the mose and throat by expert specialists in all cases of rheumatism, and brilliant lights thrown by concave, condensing mirrors into every nook and corner of their cavities and other mirrors set at an angle on lous, elender mirrors into every nook and there convictions of morality toricing at their foundations.

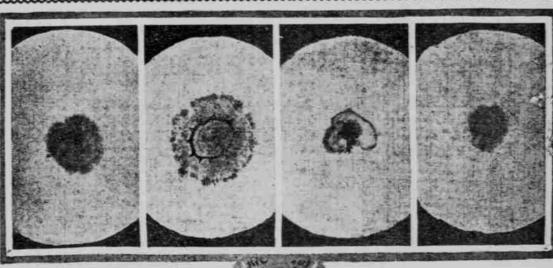
Now, if they thought about it sensitions of the price of peace of mind or happiness where there is on peace of mind. Thus and warp your life out of all time to come.

The millis of the gods in their roles and the deepest parts of the throat, but special and an angle of the price of peace of mind or happiness where there is no happiness where the take in the roles of the price o

In a Garden of Germs

Teeth Worst Offenders.

By Garrett P. Serviss



the settor cores, a increase common in the air; to the right, the ray fungus which produces a cattle disease, to which man is also subject.

the series of the right, the ray funger which produces a cattle disease, to which man is also subject.

It which man is also subject.

Since man has discovered some of his most addiscovered some of his most dangerous enemies as well as some of his most useful friends in the world of heterial life, a well as some of his most useful friends in the world of heterial laboration of the many and the series of the first of the form of the series of the first of the form of the first of the form of the first of the form of the first of the first of the form of the first of the first of the form of the first of the fi

The pink water bacillus and to the left the nitrogen fixing bacterium, which grows in soil and assimilates atmospheric nitrogen for higher plants.